

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau

10/534866

(43) International Publication Date
27 May 2004 (27.05.2004)

PCT

(10) International Publication Number
WO 2004/043523 A1(51) International Patent Classification⁷: A61M 5/32

(21) International Application Number: PCT/IT2003/000435

(22) International Filing Date: 10 July 2003 (10.07.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
CB2002A000005
12 November 2002 (12.11.2002) IT

(71) Applicant and

(72) Inventor: ZEOLI, Filomena [IT/IT]; Via Santa Cristina
48, I-86017 Sepino (IT).

(72) Inventor; and

(75) Inventor/Applicant (for US only): SOZIO, Mario
[IT/IT]; Via Armando Diaz 12, I-04100 Latina (IT).

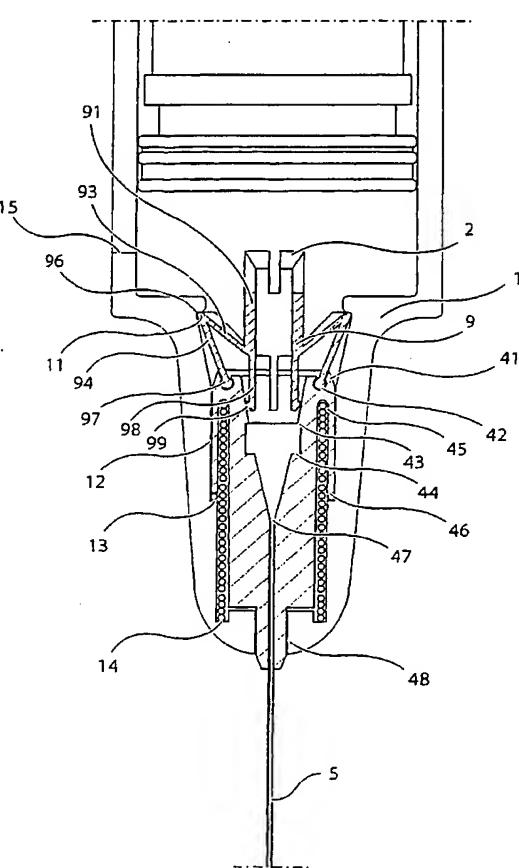
(74) Agents: IANNONE, Carlo, Luigi et al.; Ing. Barzando & Zanardo Roma S.p.A., Via Piemonte, 26, I-00187 Roma (IT).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: DISPOSABLE SYRINGE WITH RETRACTILE NEEDLE



(57) **Abstract:** Disposable syringe (100) characterized in that it is provided a needle carrier socket element (4), coupable with a lip of a reservoir (1) from inside the same reservoir, in that a seat (46) is realized on said lip for seating a sealing gasket (7) between needle carrier socket (4) and reservoir lip, in that it is provided a double hook element (9), causing, after the piston stroke toward the end of said socket element (4) of the needle (5), to allow its retraction within the reservoir (1) during the reverse stroke of the piston (2), and in that an elastic element or spring (8) is provided between said double hook element (9) and the end of said reservoir lip, that, when compressed, maintains said double hook element (9) in its position, and when extended, acts to cause the return of the needle (5) within the reservoir (1).

WO 2004/043523 A1